

## **TM-425 (Iodomethane), Development and Regulatory Update.**

**M. A. Allan\*, C.T. Schiller, Tomen Agro, Inc., 2000**

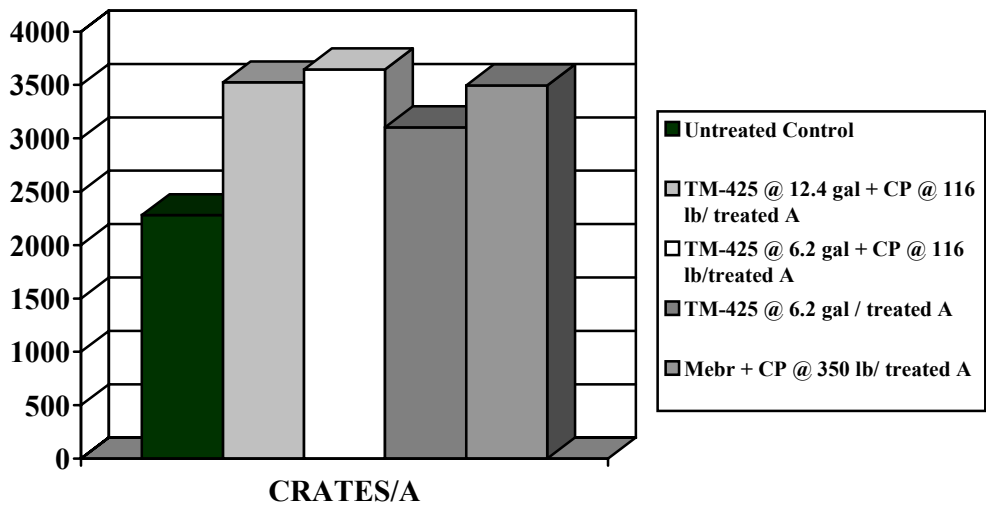
TM-425, (active ingredient: Iodomethane) is a broad spectrum fumigant applied to soil for control of various soil borne fungi, nematodes and weed species in strawberry, tomato and flower production acreage. Pre-plant soil injected fumigations are made with tractor mounted equipment on flat / broadcast or into prepared plant beds (shank or drip injected). Field efficacy trials conducted in California and Florida support rates of iodomethane at 120 –235 lb (12.4 – 6.2 gallons) per treated acre. Fumigation as a stand-alone product and in tank mix with chloropicrin (CP) at formulated product percentages of 67/43, 60/40 and 50/50% are being evaluated. Rates are dependent upon target species, soil conditions/preparation and texture.

Data from various field trials have shown increased yields in crates/A for both strawberries and tomatoes within TM-425 treatments at 235 , 175 and 116 lb / treated A + chloropicrin @ 120 lb/ treated A compared to methyl bromide + chloropicrin @ 350 (235 + 116) lb/ treated A.

In 1999, Tomen Agro placed TM-425 in a Biological Development program as a soil fumigant and replacement candidate for methyl bromide (MeBr). Regulatory meetings with U.S. EPA and California Department of Pesticide Regulations have been favorable resulting in TM-425 being given an EPA top priority with an accelerated review process, pending the outcome of toxicological and residue data review. The initial results of these studies will be available in the first half of 2001.

TM-425 has several advantages including ease of handling and delivery compared to methyl bromide, reduced human exposure, and recognition as a non-ozone depleting compound due to its physical and chemical characteristics. The first Section 3 submission is scheduled for first quarter 2002, with registrations for fresh market tomatoes, strawberries (fruit and nursery production), cut flower and bulb production. Registration and commercial distribution of a stand alone product is anticipated for 2003

**Marketable Berry Yield**  
**Salinas, California**



Based upon 22,000 plants / A  
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